

threads 168 which cooperate with external threads 170 on the housing 102 to secure the insert 136 within the housing 102.

[00031] Numerous alterations of the structure herein disclosed will suggest themselves to those skilled in the art. However, it is to be understood that the present disclosure relates to the preferred embodiment of the invention which is for purposes of illustration only and not to be construed as a limitation of the invention. All such modifications which do not depart from the spirit of the invention are intended to be included within the scope of the appended claims.

[00032] Having thus set forth the nature of the invention, what is claimed herein is:

1. A texturizer comprising:
  - a base having a first inlet ducted to a first station;
  - a first housing having a proximal and a distal end, an internal housing bore and a duct intermediate the proximal and distal ends of the first housing, said duct providing fluid communication from the first station to the housing bore;
  - a first insert having a proximal and distal end and an insert bore extending through the first insert along a yarn travel axis, said first insert having a receiver located at least partially in the housing bore at the duct and a collar disposed toward the distal end of the first insert, said collar having at least two slots disposed along an outer surface of the collar, said slots extending distally from the receiver toward the distal end of the first insert, said collar also having passageways corresponding respectively to the slots, said passageways proceeding proximally from the slots into the insert bore to provide fluid communication from the slots to the insert bore.
2. The texturizer of claim 1 wherein each of the passageways are similarly angled relative to the yarn travel axis wherein air directed through the passageways meets at an impingement point.
3. The texturizer of claim 1 wherein the slots and passageways are circumferentially spaced apart from one another about the collar and separated from one another by the collar.
4. The texturizer of claim 1 wherein the distal end of the insert extends at least substantially to the distal end of the housing.

5. The texturizer of claim 1 further comprising a seal preventing air flow from the receiver past the distal end of the insert.

6. The texturizer of claim 1 wherein the first housing and first insert are respectively, ones of a plurality of similarly constructed housings and inserts connected to the base.

7. The texturizer of claim 6 further comprising a second inlet and a second station, said second inlet in fluid communication with the second station, and a second housing of the plurality of housings connected to the base at the second station with a second insert of the plurality of inserts disposed at least partially inside.

8. A texturizer comprising:

a base having a first inlet ducted to at least one station;

a first housing having a proximal and a distal end, an internal housing bore having an internal surface, and a duct intermediate the proximal and distal ends of the first housing, said duct providing fluid communication from one of the at least one stations to the housing bore, said first housing connected to the base;

a first insert having a proximal and distal end and an insert bore extending through the first insert along a yarn travel axis, said first insert having a receiver and a collar disposed toward the distal end of the first insert, said collar having an exterior surface substantially adjacent a portion of the internal surface of the housing bore;

slots located in the collar extending from the receiver toward the distal end of the collar, said slots spaced apart and separated from one another by the collar, each of said slots having a corresponding passage extending from the respective slot proximally into the insert bore.

9. The texturizer of claim 8 wherein the collar has an exterior surface and the slots extend radially inwardly from the exterior surface of the collar.

10. The texturizer of claim 8 further comprising a seal intermediate the insert and the housing bore located distally from the slots.

11. The texturizer of claim 8 wherein the passages are angled similarly relative to the yarn travel axis.

12. The texturizer of claim 8 wherein the housing forms an air tight seal relative to the base, and a shank base is located proximally from the receiver in the housing bore to assist in directing air from the receiver through the slots.

13. The texturizer of claim 8 wherein the collar has an outer surface which is received within an inner surface of the housing bore and the slots are disposed along the outer surface of the collar and terminate prior to reaching the distal end of the insert.

14. The texturizer of claim 8 wherein the first housing and first insert are respectively ones of a plurality of housings and inserts connected to the base.

15. A texturizer comprising:

a base having a first inlet ducted to at least one station;

a first housing having a proximal and a distal end, an internal housing bore having an internal surface, and a duct intermediate the proximal and distal ends of the first housing, said duct providing fluid communication from one of the at least one stations to the housing bore, said first housing connected to the base;

a first insert having a proximal and distal end and an insert bore extending through the first insert along a yarn travel axis, said first insert having a collar with an exterior surface, said first insert located at least partially within the housing bore;

passages extending proximally from the exterior surface of the collar intermediate the proximal and distal end of the insert into the insert bore.

16. The texturizer of claim 15 wherein the insert further comprises a receiver located proximate to the duct of the housing.

17. The texturizer of claim 16 further comprising slots communicating the passages with the receiver.

18. The texturizer of claim 17 wherein the slots extend from the receiver toward the distal end of the insert and terminate prior to reaching the distal end of the insert.

19. The texturizer of claim 17 further comprising a seal intermediate the slots and distal end of the insert, said seal providing a barrier intermediate the outer surface of the collar and the internal surface of the housing bore.

20. The texturizer of claim 15 wherein the first housing is one of a plurality of similarly constructed housings, each of the plurality of housings communicating with stations in the base, said first station being one such stations.